Attorney's Docket No.: 16596-006003

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Thompson, et al.

Serial No.: N/A

Art Unit: Unknown

Examiner: Unknown

Filed : Herewith

Title : METHOD OF PRODUCING INFECTIOUS REOVIRUS

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

<u>INFORMATION DISCLOSURE STATEMENT</u>

In accordance with the duty of disclosure as set forth in 37 C.F.R. §1.56, Applicants hereby submit the following information in conformance with 37 C.F.R. §§1.97 and 1.98.

Pursuant to 37 C.F.R. §1.98(d), copies of the documents cited herein are not enclosed as all the documents have been previously submitted or cited in U.S. Patent Application No. 10/337,911, filed on January 8, 2003; and/or U.S. Application No. 09/920,012, filed on August 2, 2001; to which the present application claims priority under 35 U.S.C. §120.

- 1. U.S. Patent No. 4,070,453
- 2. U.S. Patent No. 4,559,229
- 3. U.S. Patent No. 5,023,252
- 4. U.S. Patent No. 6,136,307
- 5. WO 99/08692, published February 25, 1999
- 6. JP 63044532A, published February 25, 1988 (with English abstract)

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7. Berry et al., "Production of Reovirus Type-1 and Type-3 from Vero Cells Grown on Solid and Macroporous Microcarriers," *Biotechnology and Bioengineering* 62, (1999), pp. 12-19.

- 8. Bos, J. L., "Ras Oncogenes in Human Cancer: A Review," Canc. Res., 49(17), pp. 4682-4689 (1989).
- 9. Chandron and Nibert, "Protease cleavage of reovirus capsid protein mul and mul C is blocked by alkyl sulfate detergents, yielding a new type of infectious subvirion particle," J. of Virology, 72(1), (1998), pp. 467-75.
- 10. Coffey, M.C., et al., "Reovirus therapy of tumors with activated Ras pathway," *Science* 282, (1998), pp. 1332-1334.
 - 11. Hand, et al., J. Gen. Virol., 12:121-130 (1971).
 - 12. Hand, et al., J. Mol. Biol., 82:175-183 (1974).
- 13. Drastini, Y., et al., "Comparison of eight different procedures for harvesting avian reoviruses grown in Vero cells," *J. of Virological Methods*, 39, (1992), pp. 269-278.
- 14. Jones, R.C., et al., "Different sensitivities of Vero cells from two sources to avian reoviruses," *Research in Veterinary Science*, 48, (1990), pp. 379-380.
- 15. McRae, M.A. and Joklik, W.K., "The nature of the polypeptide encoded by each of the 10 double-stranded RNA segments of reovirus type 3," *Virology*, 89, (1979), pp. 578-593.
- 16. Meanger, J., et al., "Immune response to avian reovirus ain chickens and protection against experimental infection," *Aust. Vet. J.*, 75(6), (June 1997), pp. 428-432.
- 17. Nwajei, B.N.C., et al., "Comparison of chick embryo liver and Vero cell cultures for the isolation and growth of avian reoviruses," *Avian Pathology*, 17, (1988), pp. 759-766.
 - 18. Poggioli, et al., J. Virol., 74:9562-9570 (2000).
- 19. Smith, R.E., et al., "Polypeptide components of virions, top component and cores of reovirus type 3," *Virology*, 39, (1969), pp. 791-810.
- 20. Strong, J.E. and P.W. Lee, "The *v-erbB* oncogene confers enhanced cellular susceptibility to reovirus infection," *J. Virol.*, 70, (1996), pp. 612-616.

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21. Strong, J.E., et al., "Evidence that the Epidermal Growth Factor Receptor on Host Cells Confers Reovirus Infection Efficiency Virology," 197(1), (1993), pp. 405-411.

- 22. Strong, J.E., et al., "The molecular basis of viral oncolysis: usurpation of the Ras signaling pathway by reovirus," *EMBO J.*, 17, (1998), pp. 3351-3362.
- 23. Taber et al., "The selection of virus-resistant Chinese hamster ovary cells," *Cell*, 8, (1976), pp. 529-533.
- 24. Tyler, et al., "Reoviruses," in *Encyclopedia of Virology*, 2nd edition, lines 4-14 on right column of page 1456 (1999).
- 25. Wilcox, G.E., et al., "Adaptation and characteristics of replication of a strain of avian reovirus in Vero cells," *Avian Pathology*, 14, (1985), pp. 321-328.
- 26. Wyatt R.G. et al., "Probable in vitro cultivation of human reovirus like agent of infantile diarrhoea," *Lancet* (1976) 1/7950:98-99.
- 27. 2002 American Type Culture collection (ATCC) at http://www.atcc.org/Search catalogs?searchAll.cfm.

This Information Disclosure Statement is being submitted with the present application. Consequently, no fee is required pursuant to 37 C.F.R. §1.97(b).

By citing the above references, Applicants do not acquiesce or admit that any of these documents is prior art under 35 U.S.C. Applicants specifically reserve the right, where appropriate, to antedate any of the cited documents by an appropriate showing under 37 C.F.R. §1.131, §1.604, §1.608 or any other suitable means.

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To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: Dec. 10, 2003

Ping F. Hwung Reg. No. 44,164

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Facsimile: (650) 839-5070

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l .	losure Statement plicant	Applicant Thompson, et al.		
(Use several sheets if necessary) (37 CFR §1.98(b))		Filing Date Herewith	Group Art Unit Unknown	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	4,070,453	01/24/1978	Bordt, et al.			
	AB	4,559,229	12/17/1985	Page, et al.			
	AC	5,023,252	06/11/1991	Hsei			
	AD	6,136,307	10/24/2000	Lee, et al.			
	AE						

	Foreig	n Patent Doc	uments or Pu	blished Foreign	Patent A	Applicatio	ns	
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Transl Yes	ation No
	AF	WO 99/08692	02/25/1999	PCT				
	AG	JP 63044532A	02/25/1988	Japan			Abstract	
	AH							

Other Documents (include Author, Title, Date, and Place of Publication)				
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	AI	Berry et al., "Production of Reovirus Type-1 and Type-3 from Vero Cells Grown on Solid and Macroporous Microcarriers," <i>Biotechnology and Bioengineering</i> 62, (1999), pp. 12-19.		
	AJ	Bos, J. L., "Ras Oncogenes in Human Cancer: A Review," Canc. Res., 49(17), pp. 4682-4689 (1989).		
	AK	Chandron and Nibert, "Protease cleavage of reovirus capsid protein mu1 and mu1C is blocked by alkyl sulfate detergents, yielding a new type of infectious subvirion particle," <i>J. of Virology</i> , 72(1), (1998), pp. 467-75.		
	AL	Coffey, M.C., et al., "Reovirus therapy of tumors with activated Ras pathway," <i>Science</i> 282, (1998) pp. 1332-1334.		
	AM	Hand, et al., J. Gen. Virol., 12:121-130 (1971).		
	AN	Hand, et al., J. Mol. Biol., 82:175-183 (1974).		
	AO	Drastini, Y., et al., "Comparison of eight different procedures for harvesting avian reoviruses grown in Vero cells," J. of Virological Methods, 39, (1992), pp. 269-278.		
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	AS	Nwajei, B.N.C., et al., "Comparison of chick embryo liver and Vero cell cultures for the isolation and growth of avian reoviruses," <i>Avian Pathology</i> , 17, (1988), pp. 759-766.		

Examiner Signature Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 16596-006003	Application No. N/A	
Information Disclosure Statement by Applicant		Applicant Thompson, et al.		
(Use several sho	eets if necessary)	Filing Date	Group Art Unit	
(37 CFR §1.98(b))	·	Herewith	Unknown	

	Other Documents (include Author, Title, Date, and Place of Publication)				
Examiner Desig. Initial ID Document					
	AT	Poggioli, et al., J. Virol., 74:9562-9570 (2000).			
,	AU	Smith, R.E., et al., "Polypeptide components of virions, top component and cores of reovirus type 3," <i>Virology</i> , 39, (1969), pp. 791-810.			
AV Strong, J.E. and P.W. Lee, "The <i>v-erbB</i> oncogene confers enhanced cellular susceptibility to reovirus infection," <i>J. Virol.</i> , 70, (1996), pp. 612-616. AW Strong, J.E., et al., "Evidence that the Epidermal Growth Factor Receptor on Host Cells Conference on Reovirus Infection Efficiency Virology," 197(1), (1993), pp. 405-411.					
					AX
	AY	Taber et al., "The selection of virus-resistant Chinese hamster ovary cells," <i>Cell</i> , 8, (1976), pp. 529-533.			
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	AAA	Wilcox, G.E., et al., "Adaptation and characteristics of replication of a strain of avian reovirus in Vero cells," <i>Avian Pathology</i> , 14, (1985), pp. 321-328.			
	ABB	Wyatt R.G. et al., "Probable in vitro cultivation of human reovirus like agent of infantile diarrhoea," <i>Lancet</i> (1976) 1/7950:98-99.			
	ACC	2002 American Type Culture collection (ATCC) at http://www.atcc.org/Search catalogs?searchAll.cfm.			

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